

Kasvi Mahajan

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EDUCATION

UNIVERSITY OF WESTERN ONTARIO

Bachelor of Science | GPA 3.3

Major in **Applied Mathematics**; Minor in Studio Arts

Certifications: IBM Data Analysis for Beginners (pursuing **advanced data analysis** certifications)

Relevant Coursework: **Fundamentals of Computer Science, Data Science & Visualisation**, Advanced Calculus, **Numerical Analysis**, Financial Operations, **Statistics**, Disease Modelling, **Business Ethics**, Abstract Algebra, and Differential Equations

London, ON

Expected August 2025

WORK EXPERIENCE

University Of Western Ontario

London, ON

Undergraduate Research Assistant: Department of History (International Relations)

May 2025 - Present

- Collected and **evaluated data** from 36 Canadian universities offering IR-related programs, enabling **comparative analysis** to guide departmental improvements at Western.
- Built an interactive **Excel** dashboard to visualise key metrics, trends, and strategic benchmarks, enhancing decision-making for long-term program enhancement.
- Developing a **data-driven quality control strategy** for the IR program using **peer-reviewed research** conducted on higher education teaching strategies, along with utilising current resources available at Western.

Undergraduate Research Assistant: Department of Mathematics

May 2024 – September 2024

- Analysed fitness landscapes and genome mutations, improving research accuracy through data simulations in **Python**.
- Refined computational efficiency by 40% using **MATLAB/Python**, saving 6-7 hours in repetitive computations.

Undergraduate Research Assistant: Department of Earth Sciences

June 2023 – April 2024

- Conducted in-depth research on 15+ **peer-reviewed papers**, ensuring research was aligned with ongoing project needs.
- Collaborated with PhD candidates to analyse **geological datasets**, contributing to a research project that improved data accuracy. This resulted in enhanced overall research quality for hundreds of samples.

Ernst & Young

New Delhi, India

Project Intern

May 2023– August 2023

- Conducted real-time research utilising corporate business activities of over 50 companies with a focus on organisations like PowerGrid and Tata Enterprise, and their tenders to procure them as potential clients. Provided the collected data in an organised format using **Microsoft Excel**.
- Curated data** from websites like psuwatch.com for ongoing news and changes in companies for updated information, and furnished my supervisors weekly.
- Utilised VBA and Pivot tables to automate data entry, calculations and formatting tasks.

PROJECT EXPERIENCE

COVID-19 Data Analysis | *Disease Modeling* | *MATLAB, Python, Microsoft Excel & Word, and Research*

- Curated data** for COVID-19 cases in France in 2021 from renowned resources, developed an SVIR disease model that suits the trends of the data and performed a detailed statistical analysis using **MATLAB and Python**.
- Authored a research paper** validating the model's accuracy, detailing the analytical methodology and assumptions.

Adventure Works Data Analysis | *Coursera* | *Microsoft Excel and SQL*

- Analysed data** for a fictitious company that exports athletic gear and equipment, using **MS Excel, Pivot tables and VBA**
- Improved company data formatting, repetitions, and clarity, which increased sales and streamlined day-to-day business.

Socio-Economic Factor Analysis for Income Prediction | *Introduction to Data Science* | *Python, Jupyter, Microsoft Excel*

- Engineered and analysed a dataset** of **8,000** individuals using **Python**, handling missing values and encoding **8 categorical variables** to model the impact of demographic factors on income.
- Developed a **multiple linear regression** model to predict income, identifying certain factors as the most significant factors influencing earnings

SKILLS AND INTERESTS

Technical Skills: MATLAB, Python, SQL, Microsoft Excel, Power BI, R, HTML/CSS

Soft Skills: Research Analysis, Data Simulations, Mathematical Modeling

Languages: English (Fluent), Hindi (Fluent), German (Intermediate), French (Beginner)

Interests: Painting, Cooking, Cars, New Tech, Stand-up Comedy

LEADERSHIP EXPERIENCE

Association for Women in Mathematics & Math Bridge | *Director of Outreach and Events*

Leadership And Mentorship Program | *General Science Mentor- Team Leader*

Western Science Students' Council | *Department Representative - International Committee Member*